

Fig. 5. (Left) Eumorphocorystes schencki. Dorsal view of carapace of holotype showing antero-lateral spine, x 1-1/2.

Fig. 6. (Right) $Eumorphocorystes\ schencki$. Left profile of same carapace, x 1-1/2.

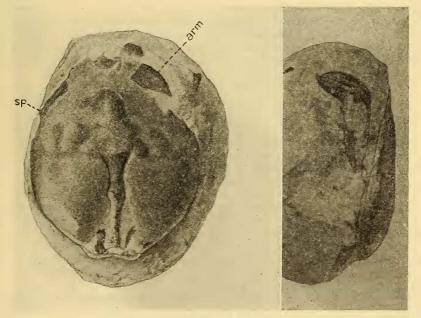


Fig. 7. (Left) Eumorphocorystes leucosiae. Dorsal view of carapace of holotype showing origin of lateral spine and portion of right arm, x 2.

Fig. 8. (Right) $Eumorphocorystes\ leucosiae$. Left side of holotype showing chela and fragments of legs, x 2.

Behind the lateral spine the angle of the carapace is rounded and the postlateral margins are blunt and converge rapidly toward the posterior end. Exposed dorsal surface with some fine granulation near antero-lateral border; this is, however, not the true outer layer which is shown in the opposing half of the nodule (Fig. 4); its under surface is exposed and is covered with large, smooth, almost contiguous granules, which in the reverse or upper layer must appear as so many pits. At the lateral angle on what is the true right side there is a tooth pointing directly outward; this is a stout, blunt tooth similar to the one described above but straighter; one or two of the teeth or spines indicated may belong to the carpus of the cheliped.

Apparent length of carapace 24.6, width 23.7 mm.

Type-locality.—Tuffaceous sandstone on S. side of Alsea Bay about $\frac{1}{8}$ mile E. of B.M. 12, and $\frac{1}{4}$ mile E. of Waldport, Lincoln Co., Oregon; Sec. 20, T. 13 S., R. 11 W. Lower Oligocene. Sept. 14, 1926. Hubert G. Schenck. Cat. No. 371901, U. S. N. M.

Eumorphocorystes schencki, new species

Two carapaces, very convex from front to back, more so from side to side. Shape, broad oval, width 40 mm., length about 45. Front narrow, about $\frac{1}{3}$ as wide as carapace excluding spines; details obscure. A spine at anterior third of lateral margin or about 15 mm. behind margin of front; spine 6.7 mm. long, tapering to a slender point and directed well outward. Behind the spines the side margins are parallel along the middle third. Posterior margin somewhat wider than anterior, and slightly convex. Surface covered with large round pits, irregularly disposed, rarely in contact. A blunt, longitudinal, median carina the length of the carapace, becoming widest between the crescentic, branchio-cardiac grooves.

Type-locality.—Washington County, Oregon, near center of section 3, T. 2 N., R. 5 W., Beaver Creek road, Gales Creek to Timber, 3 miles S. of Timber. Keasey formation, "Cardium weaveri" zone, Oligocene, Holman #27. John T. Holman and H. G. Schenck collectors, 1931. Cat. No. 371921, U. S. N. M.

Eumorphocorystes (?) leucosiae, new species

Carapace subglobular, little longer than broad, posterior margin $\frac{1}{4}$ as wide as carapace, subtruncate, a little concave at middle; front about $\frac{1}{6}$ as wide as carapace; middle third of lateral margins subparallel. Surface covered with small pits, interspaces rough with fine granules; two longitudinal furrows through middle of carapace, near together at posterior third, diverging at either end, more so anteriorly; intermediate surface convex; branchial regions swollen. Lateral spine indicated at anterior third of lateral margin. Left chela uncovered, palm elongate, widening distally, half as wide as superior length, bluntly carinate above and armed with four spines below. Fingers strongly deflexed, tips crossing, prehensile edges wavy, meeting, outer edges carinate, carinae set off by a furrow. Fragment of arm rough like carapace.

Approximate length of type carapace 28.6, width 23 mm. A larger speci-

men is 30.3 x 26.2 mm.

Has much the appearance of a Leucosiid.

Type-locality.—Polk County, Oregon, center of E. line of N. W. quarter of Section 21, T. 6 S., R. 6 W.; very prominent cut in bank on E. side of Mill Creek, visible from road from Buell to Sheridan. Formation probably Keasey, "Cardium weaveri" zone, Oligocene. Holman *1. John T. Holman collector, 1931. Cat. No. 371902, U. S. N. M.

ZOOLOGY.—Nematosis of a grass of the genus Cyanodon caused by a new nema of the genus Tylenchus Bast. 1 N. A. Cobb, Bureau of Plant Industry.

Tylenchus² tumefaciens n. sp. 0.8 5.6 ? 80.88.5 96.8 1.4 mm The posterior swelling of the oesophagus in this species seems to be somewhat set off from the intestine. The reflexed portion of the ovary contains the ova in about three ranges or rows, and appears one-third as wide as the corresponding portion of the body, and has a length about twice as great as that of the neck.

gallà thousand eggs in various chromosomes. stages of development. It would appear that each fefour hundred eggs.

At the blind end of the ovary galla there is a special single cell, taking up the full width, and having a distinct, clear, spherical nucleus, nearly onethird as wide as the cell. The nucleus contains a fairly Fig. 1.—Cyanodon, presum-granular spherical nucleolus ably transvalensis Davy, half as wide as the nucleus itshowing galls. One particular self. The immediately adgall amounted, practically, to jacent ova differ in having a smooth swelling on one side larger granular nuclei with of the zig-zag rachis of the somewhat larger but similar inflorescence. There arose nucleoli. In this reflexed pornear the top, the remains of a glume, the residue of which had taken part in the formation of the gall. The gall was very hard and tough, and the wall relatively thick. The ture. Passing around the flexinterior, nevertheless, was ure, the ova slowly begin to much a solution of the sall in structure. mushy, consisting mainly of change in structure, and by nemas, of which there were the time they are opposite about eight adults, about the blind end of the ovary, eight hundred larvae, and one the nuclei begin to show

The large transverse vulva male could produce about spans the ventral fourth, or four hundred eggs. spans the third of the body, and is so massive that some-

times the part of the body behind is bent dorsad at an obtuse angle. The acute tail is nearly straight, slightly convex-conoid; it may be even slightly dorsally arcuate. Anus inconspicuous. The massive uterus, occupying most of the corresponding body cavity, usually contains but one egg. The spherical spermatozoa, packed in the uterus so as to be more or less polyhedral, are about one-fourth as wide as the body of the female; they are finally granular

¹ Received April 1, 1932.

² The genus name Tylenchus is used here instead of a recently discovered prior synonym because of the author's confidence that if and when the attention of the International Commission on Zoological Nomenclature is called to the matter it will decide that far greater confusion and inconvenience will be caused by following the rule of priority in this case than in not following it, and will abrogate the rule, as it has power to do in such cases.